U.S. Department of Education

A Guide to the Implementation of

EDI Transaction Set 810 - Invoice

Version 1.6

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2.0 HOW TO USE THIS GUIDE

The following sections are intended to be used primarily as a technical reference for the implementation of the X.12.810 EDI transaction set. Section 2.1 is a high level description and layout of the transaction (at the segment level only) and only includes the segments that will be used in this implementation. Section 2.2 contains a cross-reference of the existing data elements in the various student aid programs to the corresponding element in EDI. This section is intended for comparison only and not as a technical guide, as it does not include all of the required EDI qualifiers.

Section 2.3 is the technical reference section and is organized by student aid program. Within each program section, there is a program element to EDI element cross-reference, a sample origination record cross reference from the EDI transaction to the program element (including required EDI elements and qualifiers currently not used in the program applications), and an analysis of the gaps between the program elements and the standard EDI transaction set elements.

2.1 TRANSACTION PURPOSE

This Standard contains the format and establishes the data contents of the Invoice Transaction Set (810) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide for customary and established business and industry practice relative to the billing for goods and services provided.

For Title IV purposes, this is a new transaction for the request of financial aid funds from fund sources back to the school or to the student's account.

2.1.1 Segment Summary

Envelope:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes
010	ISA	Interchange Control Header	M	1		
020	GS	Functional Group Header	M	1		

Heading:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes
010	ST	Transaction Set Header	M	1		
020	BIG	Beginning Segment for Invoice	M	1		
LOOP ID - N1					200	
120	REF	Reference Identification	O	12		

Details:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes
LOOP ID - IT1					200000	
010	IT1	Baseline Item Data (Invoice)	O	1		
120	REF	Reference Identification	O	>1		
125	YNQ	Yes/No Question	O	10		
150	DTM	Date/Time Reference	O	10		
LOOP ID - SAC					25	
055	SAC	Service, Promotion, Allowance, or Charge Information	O	1		
LOOP ID – N1					200	
240	N1	Name	O	1		

Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes
010	TDS	Total Monetary Value Summary	M	1		
035	AMT	Monetary Amount	O	>1		
080	SE	Transaction Set Trailer	M	1		

2.2 STUDENT AID DISBURSEMENT RECORD CROSS-REFERENCE MATRIX

The following matrix is a cross-reference of the various current student aid program origination record data elements to the EDI transaction set X12.810 (Invoice) data elements. This matrix is not an implementation guide, but is meant to be a high-level cross reference of the existing data elements for all student aid programs that will use this transaction set. An 'N/A' denotes that the program does not currently use that particular EDI element or loop. A more detailed technical map for each student aid program can be found in the subsequent Detail Technical Specifications section of this document.

	PELL	**DIRECT LOAN**	**FFELP**

ENVELOPE:

TRANSMISSION ENVELOPE

ISA SEGMENT

	PELL	DIRECT LOAN	FFELP
ISA01 - Authorization Information Qualifier	Translator Provided	Translator Provided	Translator Provided
ISA02 - Authorization Information	Translator Provided	Translator Provided	Translator Provided
ISA03 - Security Information Qualifier	Translator Provided	Translator Provided	Translator Provided
ISA04 - Security Information	Translator Provided	Translator Provided	Translator Provided
ISA05 - Interchange ID Qualifier	Translator Provided	Translator Provided	Translator Provided
ISA06 - Interchange Sender ID	Translator Provided	Translator Provided	Translator Provided
ISA07 - Interchange ID Qualifier	Translator Provided	Translator Provided	Translator Provided
ISA08 - Interchange Receiver ID	**Destination Mailbox ID** – EDI mailbox ID	Translator Provided	Translator Provided
ISA09 - Interchange Date	Translator Provided	Translator Provided	Translator Provided
ISA10 - Interchange Time	Translator Provided	Translator Provided	Translator Provided
ISA11 - Interchange Control Standards Identifier	Translator Provided	Translator Provided	Translator Provided
ISA12 - Interchange Control Version Number	Translator Provided	Translator Provided	Translator Provided
ISA13 - Interchange Control Number	Translator Provided	Translator Provided	Translator Provided
ISA14 - Acknowledgment Requested	Translator Provided	Translator Provided	Translator Provided
ISA15 - Usage Indicator	Translator Provided	Translator Provided	Translator Provided
ISA16 - Component Element Separator	Translator Provided	Translator Provided	Translator Provided

	PELL	**DIRECT LOAN**	**FFELP**

TRANSACTION ENVELOPE

GS SEGMENT

	PELL	DIRECT LOAN	FFELP
GS01 - Functional Identifier Code	Translator Provided	Translator Provided	Translator Provided
GS02 - Application Sender's Code	**Grantee DUNS Number:** DUNS number assigned to the reporting institution	**Sender School Code or DUNS Number:** Valid Identifier or DUNS number of the sending entity.	**Sender School Code or DUNS Number:** Valid OPE ID or DUNS number of the sending entity.
GS03 - Application Receiver's Code	Translator Provided	**Receiver School Code or DUNS Number:** Valid Identifier or DUNS number of the receiving entity.	**Receiver School Code or DUNS Number:** Valid OPE ID or DUNS number of the receiving entity.
GS04 - Date	Translator Provided	Translator Provided	Translator Provided
GS05 - Time	Translator Provided	Translator Provided	Translator Provided
GS06 - Group Control Number	Translator Provided	Translator Provided	Translator Provided
GS07 - Responsible Agency Code	Translator Provided	Translator Provided	Translator Provided
GS08 - Version/Release/Industry Identifier Code	Translator Provided	Translator Provided	Translator Provided

HEADING:

N1 LOOP

REF SEGMENT

	PELL	DIRECT LOAN	FFELP
REF02 - Reference identification	**Financial Aid Servicer Identifier:** Identifying number of the financial aid servicer	**User Identifier Create**: Sender ID	N/A
REF02 - Reference identification	**Batch Number:** Number generated by the institution to uniquely identify a specific batch of records.	N/A	N/A

DETAILS:

	PELL	**DIRECT LOAN**	**FFELP**
IT1 LOOP			
IT1 SEGMENT			
IT101 – Assigned Identification	N/A	**School Code:** The Department of Education school identification code	**Entity ID Number:** The Department of Education school identification code
IT102 - Quantity Invoiced	**Disbursement Reference Number:** The disbursement number for the student for the award.	**Disbursement Number:** The disbursement number for the student for the loan	**Disbursement Number:** The disbursement number for the student for the loan.
IT107 - Product/Service ID	N/A	**Disbursement Sequence Number:** The sequence number to the disbursement number	N/A
IT109 - Product/Service ID	N/A	**Disbursement Batch Number:** Batch number for the total disbursements for the school	N/A
IT111 - Product/Service ID	**Origination ID:** The student's unique grant identifier number	**Loan Identifier & Sequence Number:** The student's unique loan identifier number	**Loan Identifier & Sequence Number:** The student's unique loan identifier number & sequence number assigned by the guarantor at the time of guaranty
YNQ SEGMENT			
YNQ02 – Yes/No Condition or Response Code	N/A	**Affirmation Flag:**	N/A
REF SEGMENT			
REF02 - Reference identification	**Institution Cross Reference:** Contains any cross-reference information useful to the institution to identify student records internally	N/A	**Fund Source ID:** The ID number for the student's funding source
REF02 - Reference identification	N/A	N/A	**Social Security Number:** The student's social security number
REF02 - Reference identification	N/A	N/A	**Loan Type:** The type of loan the student is to receive
DTM SEGMENT			

	PELL	DIRECT LOAN	FFELP
DTM02 - Date	**Disbursement Date:** The effective date of the student's disbursement	**Transaction Date:** The date the disbursement activity occurred at the school.	**Funds Request Date:** The effective date of the disbursement request.
DTM02 - Date	N/A	**Original Disbursement Date of a Disbursement Change Date:**	N/A

SAC LOOP

SAC SEGMENT

	PELL	DIRECT LOAN	FFELP
SAC01 - Allowance or Charge Indicator	**Debit/Credit Flag Indicator:** Indicates if the disbursement amount is positive or negative	**Debit/Credit Flag Indicator:** Indicates if the disbursement amount is positive or negative	**Debit/Credit Flag Indicator:** Indicates if the disbursement amount is positive or negative
SAC05 - Amount	**Disbursement Amount:** The amount to be disbursed to the student for this disbursement	**Disbursement Gross Amount:** The gross amount of this disbursement.	**Disbursement Gross Amount:** The gross amount of this disbursement.
SAC05 - Amount	N/A	**Origination Fee Amount:** The amount of associated origination fees for this disbursement	**Origination Fee Amount:** The amount of associated origination fees for this disbursement
SAC05 - Amount	N/A	**Disbursement Actual Net Amount:** The amount to be disbursed to the student for this disbursement	**Disbursement Actual Net Amount:** The amount to be disbursed to the student for this disbursement
SAC05 - Amount	N/A	**Disbursement Actual Net Adjustment Amount (card processor):** The cash amount for the card processor.	**Guarantee Fee Amount:** The amount of associated guarantee fees for this disbursement
SAC05 - Amount	N/A	N/A	**Processing Fee Amount:** The amount of associated processing fees for this disbursement
SAC05 - Amount	N/A	N/A	**Fees Paid:** The total amount of fees paid for this disbursement
SAC05 - Amount	N/A	N/A	**Total Amount of Fees Subsidized** - the total amount of fees subsidized on behalf of the borrower for the disbursement
SAC13 - Reference Identification	N/A	**Reason Code:** Code specifying the reason for the adjustment (either D, C, or Q).	**Reason Code:** Code specifying the reason for the adjustment

KPMG

	PELL	DIRECT LOAN	FFELP

N1 LOOP

N1 SEGMENT

	PELL	DIRECT LOAN	FFELP
N104 – Identification Code	**Student's Bank Account Number:** The bank account number of the student receiving the funds.	**Student's Bank Account Number:** The bank account number of the student receiving the funds.	**Student's Bank Account Number:** The bank account number of the student receiving the funds.
N104 – Identification Code	**Fund Source Bank Account Number:** The bank account number of the funding source.	**Fund Source Bank Account Number:** The bank account number of the funding source.	**Fund Source Bank Account Number:** The bank account number of the funding source.
N104 – Identification Code	**School Bank Account Number:** The bank account number of the student's school.	**School Bank Account Number:** The bank account number of the student's school.	**School Bank Account Number:** The bank account number of the student's school.

SUM LOOP

TDS SEGMENT

	PELL	DIRECT LOAN	FFELP
TDS01 - Amount	N/A	**Loan Origination Center's Total Net Loan Amount:** The batch totals for all of the student records included in this transaction	**Total Net Batch Amount:** The batch totals for all of the student records included in this transaction

AMT SEGMENT

	PELL	DIRECT LOAN	FFELP
AMT03 - Credit/Debit Flag Code	N/A	**Credit/Debit Flag** - Flag that designates if batch total is a credit or debit amount	**Credit/Debit Flag** - Flag that designates if batch total is a credit or debit amount

CTT SEGMENT

	PELL	DIRECT LOAN	FFELP
CTT01 – Number of Line Items	**Reported Number of Records** – number of records reported in this batch	N/A	N/A

	PELL	**DIRECT LOAN**	**FFELP**
CTT02 – Hash Total	**Reported Total of Batches** – total amount reported in this batch	N/A	N/A

TRAILER:

SE SEGMENT			
SE01 - Number of Included Segments	Translator Provided	Translator Provided	Translator Provided
SE02 - Transaction Set Control Number	Translator Provided	Translator Provided	Translator Provided

GE SEGMENT			
GE01 - Number of Included Transaction Sets	Translator Provided	Translator Provided	Translator Provided
GE02 - Group Control Number	Translator Provided	Translator Provided	Translator Provided

IEA SEGMENT			
IEA01 - Number of Included Functional Groups	Translator Provided	Translator Provided	Translator Provided
IEA02 - Interchange Control Number	Translator Provided	Translator Provided	Translator Provided

2.3 DETAIL TECHNICAL SPECIFICATIONS

2.3.1 Pell Program

2.3.1.1 Pell to EDI Data Element Cross-Reference

The following matrix is a cross reference of the data elements currently used in the Pell program to the suggested elements in the Invoice EDI transaction set. This matrix is a reference guide only and does not contain other required EDI elements and qualifiers necessary for the transaction set.

Column Definitions

- **Field Number** - the Pell numeric field number.
- **Field Length** - the number of bytes currently allowed for this field in the Pell application.
- **Field Type** - the character data type defined for this field.
- **Required Field?** - indicates whether a blank field is valid or not.
- **Description/Name** - the Pell name or description for the field
- **Loop ID** - the loop identifier as defined by the EDI transaction set.
- **Data Element** - the unique element number consisting of the concatenated segment and element numbers as defined by the EDI transaction set.
- **ID** - the element identification number as defined by the EDI transaction set.
- **Element Name** - the EDI name for the field.
- **Req**. - indicates whether a blank field is valid or not based on EDI transaction set requirements.
  1. M - Mandatory
  2. C - Conditional
  3. O - Optional
- **Type** - the character type required for this field as defined by the EDI transaction set.
  1. AN - alpha-numeric
  2. ID - Identifier
  3. R - Decimal
  4. DT - Date
  5. N2 - Numeric
  6. TM - Time
- **MIN/MAX** - the minimum and maximum bytes available for the field as defined by the EDI transaction set.
- **Comments** - general notes about the mapping of the Pell transaction to the EDI transaction.

ELECTRONIC DATA INTERCHANGE
X12.810 (Invoice) IMPLEMENTATION GUIDE

HEADER

PAYMENT RECORD REQUIREMENT					*EDI TRANSACTION ELEMENT*							
Field Number	**Field Length**	**Field Type**	**Required Field?**	**Description/Name**	**Loop ID**	**Data Element**	**ID**	**Element Name**	**Req**	**Type**	**MIN/ MAX**	**Comments**
1	10	A	Y	Header Identifier								Translator will hard code 'Grant Hdr'
2	4	N	Y	Data Record Length								Translator will hard code '100'
3	8	A	Y	Message Class								Translator will hard code 'PDGR00IN'
4	28	A	Y	Batch Number	N1	REF02	127	Reference Identification	C	AN	1/30	
5	7	A/N	Y	Destination Mailbox ID	ENV	ISA08	I08	Interchange Receiver ID	M	AN	15/15	
6	11	A/N	N	Grantee Duns Number	ENV	GS02	142	Application Sender's Code	M	AN	2/15	
7	11	N	N	Financial Aid Servicer Identifier	N1	REF02	127	Reference Identification	C	AN	1/30	
8	1	A	N	Output Media Type								Not applicable to EDI
9	7	A/N	Y	ED Use								Not applicable to EDI
10	24	N	N	Batch Reject Reasons								Not applicable to EDI

RECORD

PAYMENT RECORD REQUIREMENT					*EDI TRANSACTION ELEMENT*							
Field Number	**Field Length**	**Field Type**	**Required Field?**	**Description/Name**	**Loop ID**	**Data Element**	**ID**	**Element Name**	**Req**	**Type**	**MIN/ MAX**	**Comments**
1	25	A/N	Y	Origination ID	IT1	IT111	234	Product/Service ID	C	AN	1/48	
2	13	A	N	Institution Cross-Reference	IT1	REF02	127	Reference Identification	C	AN	1/30	
3	1	A	N	Action Code								Not applicable to EDI
4	2	N	Y	Disbursement Reference Number	IT1	IT102	358	Quantity Invoiced	C	R	1/10	
5	1	A	Y	Debit/Credit Indicator Flag	SAC	SAC01	248	Allowance or Charge Indicator	M	ID	1/1	
6	7	N	Y	Disbursement Amount	SAC	SAC05	610	Amount	O	N2	1/15	
7	8	D	Y	Disbursement Date	IT1	DTM02	373	Date	C	DT	8/8	
8	17			Disbursement Batch Number								Not applicable to EDI
				Student's Bank Account Number	N1	N104	67	Identification Code	C	AN	2/80	
				Fund Source Bank Account Number	N1	N104	67	Identification Code	C	AN	2/80	

RECORD

PAYMENT RECORD REQUIREMENT					EDI TRANSACTION ELEMENT						
Field Number	**Field Length**	**Field Type**	**Required Field?**	**Description/Name**	**Loop ID**	**Data Element**	**ID**	**Element Name**	**Req**	**Type**	**MIN/MAX**	**Comments**
				School Bank Account Number	N1	N104	67	Identification Code	C	AN	2/80	

TRAILER

PELL ORIGINATION RECORD					EDI TRANSACTION ELEMENT						
Field Number	**Field Length**	**Field Type**	**Required Field?**	**Description/Name**	**Loop ID**	**Data Element**	**ID**	**Element Name**	**Req**	**Type**	**MIN/MAX**	**Comments**
1	10	A	Y	Trailer Identifier								Translator will hard code 'Grant TLR'
2	4	N	Y	Data Record Length								Translator will hard code '100'
3	28	A	Y	Batch Number	N1	REF02	127	Reference Identification	C	AN	1/30	
4	6	N	Y	Reported Number of Records	TRL	CTT01	354	Number of Line Items	M	N0	1/6	
5	11	N	Y	Reported Total of Batch	TRL	CTT02	347	Hash Total	O	R	1/10	
6	1	A	Y	Reported Total Sign Indicator								Not applicable to EDI
7	6	N	Output	Accepted Number of Records								Not applicable to EDI
8	11	N	Output	Accepted Total of Batch								Not applicable to EDI
9	1	A	Output	Accepted Total Sign Indicator								Not applicable to EDI

2.3.1.2 Sample Disbursement Record Cross-Reference from EDI to the Pell Grant Element (EDI X.12 Version 4010)

The following matrix provides the reader with the suggested mapping structure for the Invoice EDI transaction set including all required qualifiers. The structure flow is in accordance with the X12.810 transaction set. The value column shows the suggested qualifier number to be used with the corresponding data element. A '-' in the value column indicates that the Pell Grant file value will be populated in this field.

EDI Loop	EDI Segment	EDI Element	EDI Element Name	Required Field?	Pell Grant Element Name	Value	Comments
ENV	ISA	01	Authorization Information Qualifier	M	N/A	'00' - No authorization information present	Translator provided
		02	Authorization Information	M	N/A	Blank	Translator provided
		03	Security Information Qualifier	M	N/A	'01' - No security information present	Translator provided
		04	Security Information	M	N/A	Blank	Translator provided
		05	Interchange ID Qualifier	M	N/A	'01' - Duns	Translator provided
		06	Interchange Sender ID	M	N/A	-	School Code
		07	Interchange ID Qualifier	M	N/A	'01' - Duns	Translator provided
		08	Interchange Receiver ID	M	Destination Mailbox ID	-	Servicer/Lender Duns number
		09	Interchange Date	M	N/A	-	Translator provided
		10	Interchange Time	M	N/A	-	Translator provided
		11	Interchange Control Standards Identifier	M	N/A	'U' - US EDI Community of ASCX12, TDCC, and UCS	Translator provided
		12	Interchange Control Version Number	M	N/A	'00402'	Translator provided
		13	Interchange Control Number	M	N/A	-	Translator provided
		14	Acknowledgment Requested	M	N/A	'1' - Interchange acknowledgment requested	Translator provided
		15	Usage Indicator	M	N/A	'P' - Production data	Translator provided
		16	Component Element Separator	M	N/A	-	Translator provided
	GS	01	Functional Identifier Code	M	N/A	'IN' - Invoice information	Translator provided
		02	Application Sender's Code	M	Grantee DUNS Number	-	School Code
		03	Application Receiver's Code	M	N/A	-	Translator provided
		04	Date	M	N/A	-	Translator provided
		05	Time	M	N/A	-	Translator provided
		06	Group Control Number	M	N/A	-	Translator provided
		07	Responsible Agency Code	M	N/A	'X' - Accredited standards committee X12	Translator provided

EDI Loop	EDI Segment	EDI Element	EDI Element Name	Required Field?	Pell Grant Element Name	Value	Comments
		08	Version/Release/Industry Identifier Code	M	N/A	'00402'	Translator provided
HDR	ST	01	Transaction Set Identifier Code	M	N/A	'810' - Invoice	Translator provided
		02	Transaction Set Control Number	M	N/A	-	Translator provided
	BIG	01	Date	M	N/A	-	Translator provided
		02	Invoice Number	M	N/A	-	Translator provided
N1	REF	01	Reference Identification Qualifier	M	N/A	'9K' - Servicer	Mandatory EDI qualifier
		02	Transaction Set Control Number	M	Financial Aid Servicer Identifier	-	None
		01	Reference Identification Qualifier	M	N/A	'BT' – Batch number	Mandatory EDI qualifier
		02	Transaction Set Control Number	M	Batch Number	-	None
IT1	IT1	02	Quantity Invoiced	C	Disbursement Reference Number	-	None
		10	Product/Service ID Qualifier	C	N/A	'A6' – Document identification code	Mandatory EDI qualifier
		11	Product/Service ID	C	Origination Record ID	-	None
	REF	01	Reference Identification Qualifier	M	N/A	'6O' - Cross reference number	Mandatory EDI qualifier
		02	Reference Identification	C	Institution Cross Reference	-	None
	DTM	01	Date/Time Qualifier	M	N/A	'325' - Disbursement date	Mandatory EDI qualifier
		02	Date	C	Disbursement Date	-	None
SAC	SAC	01	Allowance or Charge Indicator	M	Credit/Debit Flag Indicator	'C' - Charge 'N' - No allowance or charge	This field is used to indicate if the amount will be a credit or a debit.
		02	Service, Promotion, Allowance or Charge Code	C	N/A	'C231' - Disbursement	Mandatory EDI qualifier
		05	Amount	O	Disbursement Amount		The first SAC loop is used for Net Disbursement Amount with qualifier 'ZZZZ'
N1	N1	01	Entity Identifier Code	M	N/A	'S2' – Student	Mandatory EDI qualifier
		03	Identification Code Qualifier	C	N/A	'31' – Bank identification code	Mandatory EDI qualifier
		04	Identification Code	C	Student's Bank Account Number	-	None
		01	Entity Identifier Code	M	N/A	'1R' – University, college, or school	Mandatory EDI qualifier
		03	Identification Code Qualifier	C	N/A	'31' – Bank identification code	Mandatory EDI qualifier

EDI Loop	EDI Segment	EDI Element	EDI Element Name	Required Field?	Pell Grant Element Name	Value	Comments
		04	Identification Code	C	School's Bank Account Number	-	None
		01	Entity Identifier Code	M	N/A	'0B' – Interim funding organization	Mandatory EDI qualifier
		03	Identification Code Qualifier	C	N/A	'31' – Bank identification code	Mandatory EDI qualifier
		04	Identification Code	C	Fund Source Bank Account Number	-	None
TDS	TDS	01	Amount	M	N/A	-	Translator Provided
TRL	CTT	01	Number of Line Items	M	Reported Number of Records	-	None
		02	Hash Total	O	Reported Total of Batch	-	None

2.3.2 Direct Loan Program

2.3.2.1 Direct Loan to EDI Data Element Cross-Reference

The following matrix is a cross reference of the data elements currently used in the Direct Loan program to the suggested elements in the Invoice EDI transaction set. This matrix is a reference guide only and does not contain other required EDI elements and qualifiers necessary for the transaction set.

Column Definitions

- **Field Number** - the Direct Loan numeric field number.
- **Field Length** - the number of bytes currently allowed for this field in the Direct Loan application.
- **Field Type** - the character data type defined for this field.
- **Required Field?** - indicates whether a blank field is valid or not.
- **Description/Name** - the Direct Loan name or description for the field
- **Loop ID** - the loop identifier as defined by the EDI transaction set.
- **Data Element** - the unique element number consisting of the concatenated segment and element numbers as defined by the EDI transaction set.
- **ID** - the element identification number as defined by the EDI transaction set.
- **Element Name** - the EDI name for the field.
- **Req**. - indicates whether a blank field is valid or not based on EDI transaction set requirements.
    1. M - Mandatory
    2. C - Conditional
    3. O - Optional
- **Type** - the character type required for this field as defined by the EDI transaction set.
    1. AN - alpha-numeric
    2. ID - Identifier
    3. R - Decimal
    4. DT - Date
    5. N2 - Numeric
    6. TM - Time
- **MIN/MAX** - the minimum and maximum bytes available for the field as defined by the EDI transaction set.
- **Comments** - general notes about the mapping of the Direct Loan transaction to the EDI transaction.

RECORD

PAYMENT RECORD REQUIREMENT					EDI TRANSACTION ELEMENT						
Field Number	Field Length	Field Type	Required Field?	Description/Name	Loop ID	Data Element	ID	Element Name	Req	Type	MIN/ MAX	Comments
1	21			Loan Identifier & Sequence Number	IT1	IT111	234	Product/Service ID	C	AN	1/48	
2	1			Disbursement Number	IT1	IT102	358	Quantity Invoiced	C	R	1/10	
3	1			Disbursement Activity								Not applicable to EDI
4	8			Transaction Date	IT1	DTM02	373	Date	C	DT	8/8	
5	2			Disbursement Sequence Number	IT1	IT107	234	Product/Service ID	C	AN	1/48	
6	5			Disbursement Actual Gross Amount	SAC	SAC05	610	Amount	O	N2	1/15	
7	5			Disbursement Actual Loan Fee Amount	SAC	SAC05	610	Amount	O	N2	1/15	
8	5			Disbursement Actual Net Amount	SAC	SAC05	610	Amount	O	N2	1/15	
9	5			Disbursement Actual Net Adjustment Amount	SAC	SAC05	610	Amount	O	N2	1/15	
10	8			User Identifier Create	N1	REF02	127	Reference Identification Number	C	AN	1/30	
11	17			Disbursement Batch Number	IT1	IT109	234	Product/Service ID	C	AN	1/48	
12	6			School Code	IT1	IT101	350	Assigned Identification	O	AN	1/20	
13	1			School Code Status								Not applicable to 810
14	1			Loan Identifier Status								Not applicable to 810
15	1			Disbursement Number Status								Not applicable to 810
16	10			Disbursement Activity Taken Status								Not applicable to 810
17	1			Transaction Date Status								Not applicable to 810
18	1			Sequence Number Status								Not applicable to 810
19	5			Disbursement Actual Gross - LOC								Not applicable to 810
20	5			Disbursement Actual Loan Fee Amount - LOC								Not applicable to 810
21	5			Disbursement Actual Net Amount - LOC								Not applicable to 810
22	6			Disbursement Actual Net Adjustment - LOC								Not applicable to 810
23	1			Booked Status								Not applicable to 810
24	10			Booking Reject Codes								Not applicable to 810

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PAYMENT RECORD REQUIREMENT					EDI TRANSACTION ELEMENT							
Field Number	**Field Length**	**Field Type**	**Required Field?**	**Description/Name**	**Loop ID**	**Data Element**	**ID**	**Element Name**	**Req**	**Type**	**MIN/ MAX**	**Comments**
25	5			Loan Origination Center's Total Net Loan Amount	SUM	TDS01	610	Amount	M	N2	1/15	
26	8			Disbursement Acknowledgment Date								Not applicable to 810
				Affirmation Flag	IT1	YNQ02	1073	Yes/No Condition or Response Code	M	ID	1/1	Required element not included in original file layout
				Original Disbursement Date of a Disbursement Change Date	IT1	DTM02	373	Date	C	DT	8/8	Required element not included in original file layout
				Reason Code	SAC	SAC13	127	Reference Identification	C	AN	1/30	Required element not included in original file layout
				Student's Bank Account Number	N1	N104	67	Identification Code	C	AN	2/80	Required element not included in original file layout
				Fund Source Bank Account Number	N1	N104	67	Identification Code	C	AN	2/80	Required element not included in original file layout
				School Bank Account Number	N1	N104	67	Identification Code	C	AN	2/80	Required element not included in original file layout

2.3.2.2 Sample Disbursement Record Cross-Reference from EDI to the Direct Loan Element (EDI X.12 Version 4010)

The following matrix provides the reader with the suggested mapping structure for the Invoice EDI transaction set including all required qualifiers. The structure flow is in accordance with the X12.810 transaction set. The value column shows the suggested qualifier number to be used with the corresponding data element. A '-' in the value column indicates that the Direct Loan file value will be populated in this field.

EDI Loop	EDI Segment	EDI Element	EDI Element Name	Required Field?	Direct Loan Element Name	Value	Comments
ENV	ISA	01	Authorization Information Qualifier	M	N/A	'00' - No authorization information present	Translator provided
		02	Authorization Information	M	N/A	Blank	Translator provided
		03	Security Information Qualifier	M	N/A	'01' - No security information present	Translator provided
		04	Security Information	M	N/A	Blank	Translator provided
		05	Interchange ID Qualifier	M	N/A	'01' - Duns	Translator provided
		06	Interchange Sender ID	M	N/A	-	School Code
		07	Interchange ID Qualifier	M	N/A	'01' - Duns	Translator provided
		08	Interchange Receiver ID	M	N/A	-	Servicer/Lender Duns number
		09	Interchange Date	M	N/A	-	Translator provided
		10	Interchange Time	M	N/A	-	Translator provided
		11	Interchange Control Standards Identifier	M	N/A	'U' - US EDI Community of ASCX12, TDCC, and UCS	Translator provided
		12	Interchange Control Version Number	M	N/A	'00402'	Translator provided
		13	Interchange Control Number	M	N/A	-	Translator provided
		14	Acknowledgment Requested	M	N/A	'1' - Interchange acknowledgment requested	Translator provided
		15	Usage Indicator	M	N/A	'P' - Production data	Translator provided
		16	Component Element Separator	M	N/A	-	Translator provided
	GS	01	Functional Identifier Code	M	N/A	'IN' - Invoice information	Translator provided
		02	Application Sender's Code	M	Sender School Code or DUNS Number	-	Sender DUNS number
		03	Application Receiver's Code	M	Receiver School Code or DUNS Number	-	Servicer/Lender Duns number
		04	Date	M	N/A	-	Translator provided
		05	Time	M	N/A	-	Translator provided
		06	Group Control Number	M	N/A	-	Translator provided
		07	Responsible Agency Code	M	N/A	'X' - Accredited standards committee X12	Translator provided

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EDI Loop	EDI Segment	EDI Element	EDI Element Name	Required Field?	Direct Loan Element Name	Value	Comments
		08	Version/Release/Industry Identifier Code	M	N/A	''00402'	Translator provided
HDR	ST	01	Transaction Set Identifier Code	M	N/A	'810' - Invoice	Translator provided
		02	Transaction Set Control Number	M	N/A	-	Translator provided
	BIG	01	Date	M	N/A	-	Translator provided
		02	Invoice Number	M	N/A	-	Translator provided
	REF	01	Reference Identification Qualifier	M	N/A	'JD' - User identification	Mandatory EDI qualifier
		02	Reference Identification	C	User Identifier Create	-	None
IT1	IT1	01	Assigned Identification	O	School Code	-	Direct loan school code
		02	Quantity Invoiced	C	Disbursement Number	-	None
		06	Product/Service ID Qualifier	C	N/A	'JS' – Job sequence number	Mandatory EDI qualifier
		07	Product/Service ID	C	Disbursement Sequence Number	-	None
		08	Product/Service ID Qualifier	C	N/A	'B8' – Batch number	Mandatory EDI qualifier
		09	Product/Service ID	C	Disbursement Batch Number	-	None
		10	Product/Service ID Qualifier	C	N/A	'A6' - Document Identification Code	Mandatory EDI qualifier
		11	Product/Service ID	C	Loan Identifier & Sequence Number	-	None
	YNQ	01	Condition Indicator	C	N/A	TBD	Mandatory EDI qualifier
		02	Date	C	Affirmation Flag	-	A new EDI code needs to be added for 'Affirmation Flag'.
	DTM	01	Date/Time Qualifier	M	N/A	'325' - Disbursement date	Mandatory EDI qualifier
		02	Date	C	Transaction Date	-	None
		01	Date/Time Qualifier	M	N/A	TBD	Mandatory EDI qualifier
		02	Date	C	Original Disbursement Date of Disbursement Change Date	-	A new EDI code needs to be added for "Original disbursement date"
SAC	SAC	01	Allowance or Charge Indicator	M	Debit/Credit Flag Indicator	'C' - Charge 'N' - No allowance or charge	This field is used to indicate if the disbursement amount will be a credit or a debit.
		02	Service, Promotion, Allowance or Charge Code	C	N/A	TBD	Mandatory EDI qualifier
		05	Amount	O	Disbursement Actual Gross Amount	-	A new EDI code needs to be added for 'Gross amount'
		13	Reference Identification	C	Reason Code	-	None
		01	Allowance or Charge Indicator	M	N/A	'C' - Charge 'N' - No allowance or charge	This field is used to indicate if the amount will be a credit or a debit.

EDI Loop	EDI Segment	EDI Element	EDI Element Name	Required Field?	Direct Loan Element Name	Value	Comments
		02	Service, Promotion, Allowance or Charge Code	C	N/A	'E420' - Loan Fee	Mandatory EDI qualifier
		05	Amount	O	Origination Fee Amount	-	The second SAC loop is used for Origination Fees with qualifier 'E420'
		01	Allowance or Charge Indicator	M	N/A	'C' - Charge 'N' - No allowance or charge	This field is used to indicate if the amount will be a credit or a debit.
		02	Service, Promotion, Allowance or Charge Code	C	N/A	'ZZZZ' - Mutually defined	Mandatory EDI qualifier
		05	Amount	O	Disbursement Actual Net Amount		The third SAC loop is used for Disbursement Net Amount with qualifier 'ZZZZ'
		01	Allowance or Charge Indicator	M	N/A	'C' - Charge 'N' - No allowance or charge	This field is used to indicate if the amount will be a credit or a debit.
		02	Service, Promotion, Allowance or Charge Code	C	N/A	'A170' - Adjustments	Mandatory EDI qualifier
		05	Amount	O	Disbursement Actual Net Adjustment Amount	-	The fourth SAC loop is used for Fees Paid with qualifier 'I131'
N1	N1	01	Entity Identifier Code	M	N/A	'S2' – Student	Mandatory EDI qualifier
		03	Identification Code Qualifier	C	N/A	'31' – Bank identification code	Mandatory EDI qualifier
		04	Identification Code	C	Student's Bank Account Number	-	None
		01	Entity Identifier Code	M	N/A	'1R' – University, college, or school	Mandatory EDI qualifier
		03	Identification Code Qualifier	C	N/A	'31' – Bank identification code	Mandatory EDI qualifier
		04	Identification Code	C	School's Bank Account Number	-	None
		01	Entity Identifier Code	M	N/A	'0B' – Interim funding organization	Mandatory EDI qualifier
		03	Identification Code Qualifier	C	N/A	'31' – Bank identification code	Mandatory EDI qualifier
		04	Identification Code	C	Fund Source Bank Account Number	-	None
TDS	TDS	01	Amount	M	Loan Origination Center's Total Net Loan Amount	-	None
	AMT	03	Credit/Debit Flag Code	O	Credit/Debit Flag	'C' - Credit 'D' - Debit	None

2.3.3 FFELP Program

2.3.3.1 FFELP to EDI Data Element Cross-Reference

The following matrix is a cross reference of the data elements currently used in the FFELP program to the suggested elements in the Invoice EDI transaction set. This matrix is a reference guide only and does not contain other required EDI elements and qualifiers necessary for the transaction set.

Column Definitions

- **Field Number** - the FFELP numeric field number.
- **Field Length** - the number of bytes currently allowed for this field in the Direct Loan application.
- **Field Type** - the character data type defined for this field.
- **Required Field?** - indicates whether a blank field is valid or not.
- **Description/Name** - the FFELP name or description for the field
- **Loop ID** - the loop identifier as defined by the EDI transaction set.
- **Data Element** - the unique element number consisting of the concatenated segment and element numbers as defined by the EDI transaction set.
- **ID** - the element identification number as defined by the EDI transaction set.
- **Element Name** - the EDI name for the field.
- **Req**. - indicates whether a blank field is valid or not based on EDI transaction set requirements.
  1. M - Mandatory
  2. C - Conditional
  3. O - Optional
- **Type** - the character type required for this field as defined by the EDI transaction set.
  1. AN - alpha-numeric
  2. ID - Identifier
  3. R - Decimal
  4. DT - Date
  5. N2 - Numeric
  6. TM - Time
- **MIN/MAX** - the minimum and maximum bytes available for the field as defined by the EDI transaction set.
- **Comments** - general notes about the mapping of the FFELP transaction to the EDI transaction.

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PAYMENT RECORD REQUIREMENT					EDI TRANSACTION ELEMENT						
Field Number	Field Length	Field Type	Required Field?	Description/Name	Loop ID	Data Element	ID	Element Name	Req	Type	MIN/ MAX	Comments
1				Entity ID Number	IT1	IT101	350	Assigned Identification	O	AN	1/20	
2				Disbursement Number	IT1	IT102	358	Quantity Invoiced	C	R	1/10	
3				Loan Identifier & Sequence Number	IT1	IT111	234	Product Service ID	C	AN	1/48	
4				Funds Request Date	IT1	DTM02	373	Date	C	DT	8/8	
5				Fund Source ID	IT1	REF02	127	Reference Identification	C	AN	1/30	
6				Social Security Number	IT1	REF02	127	Reference Identification	C	AN	1/30	
7				Loan Type	IT1	REF02	127	Reference Identification	C	AN	1/30	
8				Disbursement Gross Amount	SAC	SAC05	610	Amount	O	N2	1/15	
9				Origination Fee Amount	SAC	SAC05	610	Amount	O	N2	1/15	
10				Disbursement Actual Net Amount	SAC	SAC05	610	Amount	O	N2	1/15	
11				Guarantee Fee Amount	SAC	SAC05	610	Amount	O	N2	1/15	
12				Processing Fee Amount	SAC	SAC05	610	Amount	O	N2	1/15	
13				Fees Paid	SAC	SAC05	610	Amount	O	N2	1/15	
14				Total Amount of Fees Subsidized	SAC	SAC05	610	Amount	O	N2	1/15	
15				Student's Bank Account Number	N1	N104	67	Identification Code	C	AN	2/80	
16				School's Bank Account Number	N1	N104	67	Identification Code	C	AN	2/80	
17				Fund Source Bank Account Number	N1	N104	67	Identification Code	C	AN	2/80	
18				Total Net Batch Amount	SUM	TDS01	610	Amount	O	N2	1/15	
19				Reason Code	SAC	SAC13	127	Reference Identification	C	AN	1/30	

2.3.3.2 Sample Disbursement Record Cross-Reference from EDI to the FFELP Element (EDI X.12 Version 4010)

The following matrix provides the reader with the suggested mapping structure for the Invoice EDI transaction set including all required qualifiers. The structure flow is in accordance with the X12.810 transaction set. The value column shows the suggested qualifier number to be used with the corresponding data element. A '-' in the value column indicates that the FFELP Loan file value will be populated in this field.

EDI Loop	EDI Segment	EDI Element	EDI Element Name	Required Field?	FFELP Element Name	Value	Comments
ENV	ISA	01	Authorization Information Qualifier	M	N/A	'00' - No authorization information present	Translator provided
		02	Authorization Information	M	N/A	Blank	Translator provided
		03	Security Information Qualifier	M	N/A	'01' - No security information present	Translator provided
		04	Security Information	M	N/A	Blank	Translator provided
		05	Interchange ID Qualifier	M	N/A	'01' - Duns	Translator provided
		06	Interchange Sender ID	M	N/A	-	OPE ID Number
		07	Interchange ID Qualifier	M	N/A	'01' - Duns	Translator provided
		08	Interchange Receiver ID	M	N/A	-	Servicer/Lender Duns number
		09	Interchange Date	M	N/A	-	Translator provided
		10	Interchange Time	M	N/A	-	Translator provided
		11	Interchange Control Standards Identifier	M	N/A	'U' - US EDI Community of ASCX12, TDCC, and UCS	Translator provided
		12	Interchange Control Version Number	M	N/A	'00402'	Translator provided
		13	Interchange Control Number	M	N/A	-	Translator provided
		14	Acknowledgment Requested	M	N/A	'1' - Interchange acknowledgment requested	Translator provided
		15	Usage Indicator	M	N/A	'P' - Production data	Translator provided
		16	Component Element Separator	M	N/A	-	Translator provided
	GS	01	Functional Identifier Code	M	N/A	'IN' - Invoice information	Translator provided
		02	Application Sender's Code	M	Sender School Code or DUNS Number	-	Sending entity DUNS number
		03	Application Receiver's Code	M	Receiver School Code or DUNS Number	-	Servicer/Lender Duns number
		04	Date	M	N/A	-	Translator provided
		05	Time	M	N/A	-	Translator provided
		06	Group Control Number	M	N/A	-	Translator provided
		07	Responsible Agency Code	M	N/A	'X' - Accredited standards committee X12	Translator provided

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EDI Loop	EDI Segment	EDI Element	EDI Element Name	Required Field?	FFELP Element Name	Value	Comments
		08	Version/Release/Industry Identifier Code	M	N/A	'00402'	Translator provided
HDR	ST	01	Transaction Set Identifier Code	M	N/A	'810' - Invoice	Translator provided
		02	Transaction Set Control Number	M	N/A	-	Translator provided
	BIG	01	Date	M	N/A	-	Translator provided date
		02	Invoice Number	M	N/A	-	Translator provided number
IT1	IT1	01	Assigned Identification	O	Entity ID Number	-	None
		02	Quantity Invoiced	C	Disbursement Number	-	None
		10	Product/Service ID Qualifier	C	N/A	'A6' - Document Identification Code	Mandatory EDI qualifier
		11	Product/Service ID	C	Loan Identifier & Sequence Number	-	None
	REF	01	Reference Identification Qualifier	M	N/A	'LE' - Lender Entity Number	Mandatory EDI qualifier
		02	Reference Identification	C	Fund Source ID	-	None
		01	Reference Identification Qualifier	M	N/A	'SY' - Social Security Number	Mandatory EDI qualifier
		02	Reference Identification	C	Social Security Number	-	None
		01	Reference Identification Qualifier	M	N/A	'9P' - Loan Type	Mandatory EDI qualifier
		02	Reference Identification	C	Loan Type	-	None
	DTM	01	Date/Time Qualifier	M	N/A	'992' – Date requested	Mandatory EDI qualifier
		02	Date	C	Funds Request Date	-	None
SAC	SAC	01	Allowance or Charge Indicator	M	Debit/Credit Flag Indicator	'C' - Charge 'N' - No allowance or charge	This field is used to indicate if the disbursement amount will be a credit or a debit.
		02	Service, Promotion, Allowance or Charge Code	C	N/A	'E420' - Loan Fee	Mandatory EDI qualifier
		05	Amount	O	Disbursement Gross Amount	-	A new EDI code needs to be added for 'Gross amount'.
		13	Reference Identification	C	Reason Code	-	None
		01	Allowance or Charge Indicator	M	N/A	'C' - Charge 'N' - No allowance or charge	This field is used to indicate if the amount will be a credit or a debit.
		02	Service, Promotion, Allowance or Charge Code	C	N/A	'E420' - Loan Fee	Mandatory EDI qualifier
		05	Amount	O	Origination Fee Amount	-	The second SAC loop is used for Origination Fees with qualifier 'E420'; Schools will not use this field

EDI Loop	EDI Segment	EDI Element	EDI Element Name	Required Field?	FFELP Element Name	Value	Comments
		01	Allowance or Charge Indicator	M	N/A	'C' - Charge 'N' - No allowance or charge	This field is used to indicate if the amount will be a credit or a debit.
		02	Service, Promotion, Allowance or Charge Code	C	N/A	'ZZZZ' - Mutually defined	Mandatory EDI qualifier
		05	Amount	O	Disbursement Actual Net Amount		The third SAC loop is used for Disbursement Net Amount with qualifier 'ZZZZ'
		01	Allowance or Charge Indicator	M	N/A	'C' - Charge 'N' - No allowance or charge	This field is used to indicate if the amount will be a credit or a debit.
		02	Service, Promotion, Allowance or Charge Code	C	N/A	'AFEE' - Fee	Mandatory EDI qualifier
		05	Amount	O	Guarantee Fee Amount	-	The fourth SAC loop is used for Guarantee Fee with qualifier 'AFEE'
		01	Allowance or Charge Indicator	M	N/A	'C' - Charge 'N' - No allowance or charge	This field is used to indicate if the amount will be a credit or a debit.
		02	Service, Promotion, Allowance or Charge Code	C	N/A	'F750' – Processing charge	Mandatory EDI qualifier
		05	Amount	O	Processing Fee Amount	-	The fifth SAC loop is used for Processing Fees with qualifier 'F750'; Schools will not use this field
		01	Allowance or Charge Indicator	M	N/A	'C' - Charge 'N' - No allowance or charge	This field is used to indicate if the amount will be a credit or a debit.
		02	Service, Promotion, Allowance or Charge Code	C	N/A	'I131' - Total Fees	Mandatory EDI qualifier
		05	Amount	O	Fees Paid	-	The sixth SAC loop is used for Fees Paid with qualifier 'I131'; Schools will not use this field
		01	Allowance or Charge Indicator	M	N/A	'C' - Charge 'N' - No allowance or charge	This field is used to indicate if the amount will be a credit or a debit.
		02	Service, Promotion, Allowance or Charge Code	C	N/A	TBD	Mandatory EDI qualifier
		05	Amount	O	Total Amount of Fees Subsidized	-	A new EDI code needs to be added for 'Fees subsidized'
N1	N1	01	Entity Identifier Code	M	N/A	'S2' – Student	Mandatory EDI qualifier
		03	Identification Code Qualifier	C	N/A	'31' – Bank identification code	Mandatory EDI qualifier
		04	Identification Code	C	Student's Bank Account Number	-	None
		01	Entity Identifier Code	M	N/A	'1R' – University, college, or school	Mandatory EDI qualifier

EDI Loop	EDI Segment	EDI Element	EDI Element Name	Required Field?	FFELP Element Name	Value	Comments
		03	Identification Code Qualifier	C	N/A	'31' – Bank identification code	Mandatory EDI qualifier
		04	Identification Code	C	School's Bank Account Number	-	None
		01	Entity Identifier Code	M	N/A	'0B' – Interim funding organization	Mandatory EDI qualifier
		03	Identification Code Qualifier	C	N/A	'31' – Bank identification code	Mandatory EDI qualifier
		04	Identification Code	C	Fund Source Bank Account Number	-	None
TDS	TDS	01	Amount	M	Total Net Batch Amount	-	None
	AMT	03	Credit/Debit Flag Code	O	Credit/Debit Flag Indicator	'C' - Credit 'D' - Debit	None

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